Operating Instructions

Electronic Typewriter
Model No. **KX-R530**

Before operating this unit, please read these instructions completely.

Thank you for your purchase of the Panasonic Electronic Typewriter KX-R530.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

CAUTION: WHEN YOU OPERATE THIS EQUIPMENT, THE SOCKET-OUTLET SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE.

The serial number of the unit may be found on the label at the right side of the unit when the Top Cover is opened. For your convenience, note this number below, and retain this book along with your proof of purchase, to serve as a permanent record of your purchase or for future reference.

MODEL NO. KX-R530 _____

SERIAL NO. _____

NAME OF DEALER _____

ADDRESS OF DEALER _____

DATE OF PURCHASE _____

Accessories (Included)

Make sure that the following parts have been included with the unit.

● Ribbon Cassette (installed on the carriage) 1
● Correction Tape (installed on the carriage) 1
● Daisywheel [KX-R10] (installed on the carriage) 1

● Operating Instruction Manual 1
● Hard Cover 1
● Quick Reference Card 1

Any details given in these Operating Instructions are subject to change without notice.

(Be sure to read this section before operating this unit.)

To use the unit, first remove the hard cover as shown in the figure.
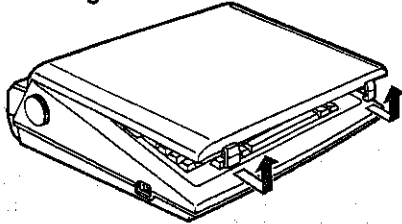
●After confirming that the **POWER** switch is turned OFF, open the paper support and the top cover then remove the ribbon cassette stopper installed on the ribbon cassette and the carriage stopper installed on the carriage shaft.
Be sure to keep these stoppers so the unit can be transported safely, if the need arises.

> **NOTE:** Be careful not to damage the flat cable located at the right side of the carriage while removing the carriage stopper and the ribbon cassette stopper.

Ribbon Cassette Stopper

Carriage Stopper (Yellow)
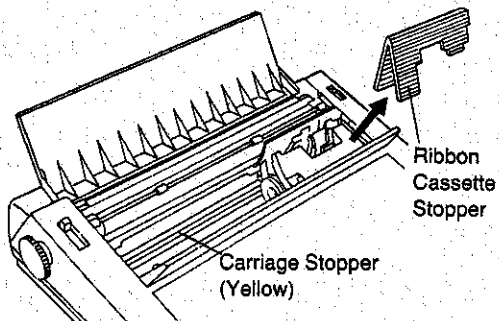
●When you transport or ship the typewriter, be sure to position the carriage at the far right of the unit, and insert the carriage stopper and the ribbon cassette stopper.

*If there is a protective film on the LCD cover, remove it so that it does not interfere with the LCD.
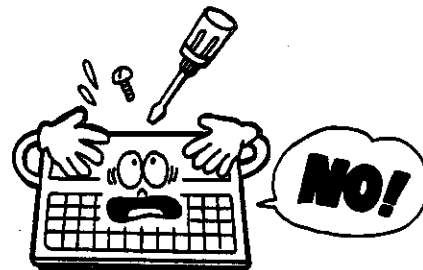(Refer to p. 6.)

●Do not place your typewriter where it is exposed to direct sunlight, heat or intense vibration.

●Do not allow any foreign matter to enter the interior of the typewriter or get between the keys. Be especially careful of metal objects.
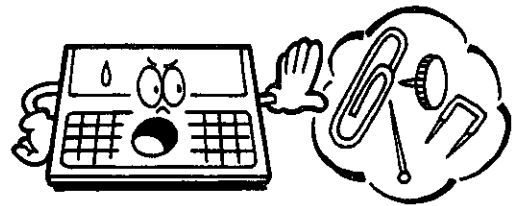
●To prevent electric shock, do not remove screws.
No user serviceable parts inside.

●Use only soft, dry cloth to clean your typewriter.
Water or thinners may damage the covers, cases or electronic circuitry.

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CONTENTS

The Operating Instructions for the typewriter are composed of the following six chapters.

1-1 NAMES AND OPERATION OF THE KX-R530 PARTS

A Main Parts

Paper Support

Carriage
The ribbon cassette, correction tape and daisywheel are installed on the carriage.

Paper Bail Lever
Pulling this lever moves the paper bail away from the platen to make paper insertion easy.

Platen Knob
This is used to manually feed the paper up or down.
Pushing the platen knob inward makes the platen variable so that it can be rotated freely to feed the paper.

Carrying Handle
Do not swing the unit excessively.

LCD Cover

LCD
Your typewriter has a 15-character Liquid Crystal Display (LCD) which helps to confirm the typed characters before printing.
You are also able to view stored texts memory on the display to correct, delete, or edit it before printing.

Platen

Paper Release Lever
This lever is used to release the paper. Pulling this lever toward you releases the paper so that you can adjust it freely. Be sure to move this lever back to lock the paper before typing.

Paper Bail and Rollers
These are used to hold the paper down. Set the rollers according to the width of the paper being used.

Front Plate
The plate must be opened when you change the daisywheel, ribbon cassette or correction tape.

Pitch Scale
Scales for three pitches of 10, 12 and 15 are shown. Use these scales for margin and tab setting.

LCD Contrast Control
This is used to adjust the contrast of the LCD.

Interface Connector
You can use this unit as a printer by connecting the optional Interface Adaptor KX-R60 to receive data from a computer.

AC Power Cord Compartment Cover

Power Switch
[POWER ON/I.OFF/O]

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MODE......In the setting mode, the display will show the typing mode (**TPW**, **L/L**, or **JST**) under this guidance.

PITCH......In the setting mode, the display will show the pitch (**10**, **12**, or **15**) under this guidance.

LINE SP....In the setting mode, the display will show the line space (**1**, **1½**, or **2**) under this guidance.

KB ....In the setting mode, the display will show the keyboard (**I** or **II**) under this guidance.

MODE   PITCH   LINE SP   KB

XX XX   XX XX   XX   AUTO   SPELL   TEXT   P INDENT

P INDENT ..The **CODE+I** keys select the paragraph indent function.

TEXT ......The **TEXT** key selects the text memory function.

SPELL ....The **CODE+0** keys select the Accu-Spell function.

AUTO......The **CODE+A** keys select whether a carriage return is made automatically or manually in the "Hot Zone".

XX ....The **CODE+B** keys select the bold print function.

XX XX......The **CODE+W** keys select the word by word underlining function.

XX XX......The **CODE+U** keys select the continuous underlining function.

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Panasonic Electronic Typewriter R530

Releases left and right margins.
Also clears all tabs when used with the **CODE** key.

Moves the carriage to the next tab position or to the right margin.

Pressing down this key locks the shift function so that capital letters or symbols on the top part of keys can be printed successively.
Pressing the **SHIFT** key terminates the lock function.
●**Shift Lock Indicator**
Illuminates during the lock function.

Pressing a character key while holding down this key causes the capital letter or the symbol on the top part of the key to be printed.

Sets TAB stops. Also clears TAB stops when used with the **CODE** key.

Command key for automated functions used in conjunction with other keys.

Moves the carriage next to the last printed character.
(When you press this key after correcting errors on any previous line, the carriage moves next to the last printed character on the end of the line so that you can continue typing with no delay.)
Also moves the carriage to the beginning of the line without line spacing when used with the **CODE** key. (Express Return)

Allows you to erase one word at a time.
Also deletes one line at a time when used with the **CODE** key.

Moves the paper up 1/2 line. Also moves the paper down 1/2 line when used with the **CODE** key.

Moves the carriage to the left margin of the next line.

Deletes characters from paper, display and memory.

Allows you to enter/recall information into/from memory and view the text on the display for modification. Also instructs the typewriter to start/stop printing document stored in memory when used with the **CODE** key.

Moves the carriage one space toward the left.
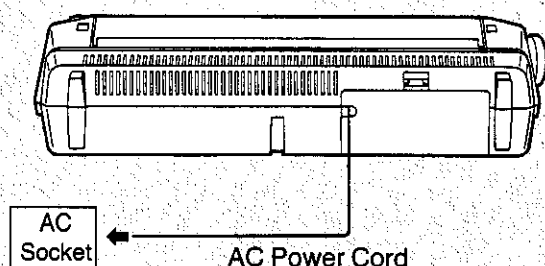Also more the carriage one space toward the right when used with the **CODE** key.

1-2 POWER SUPPLY

A Using Household AC Power

┌─────────── Caution ───────────┐
Power source voltage of this unit is listed on the
nameplate. Do not fail to plug into the right
voltage.
└──────────────────────────────┘

Connect the AC Power Cord to a household AC
Socket.

AC Socket ◄── AC Power Cord

* If you will not be using the unit for several days,
unplug the power cord after turning off the
POWER switch. About 3 watts are consumed
even while the **POWER** switch is turned off.

B Power Switch

When the **POWER** switch is set to "ON", the carriage
will move to the left margin which was previously set.
The unit is now ready for typing.
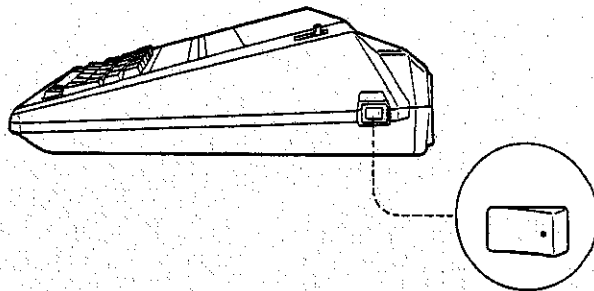

C Memory Back-up Function

The following information will be stored even after the
POWER switch is turned off:

- ●**Stored Text**   ●**Tabs**
- ●**Margins**   ●**Mode Settings**
- ●**Typing Impression**

The built-in lithium battery that is used to retain these
functions can be used for about 5 years.
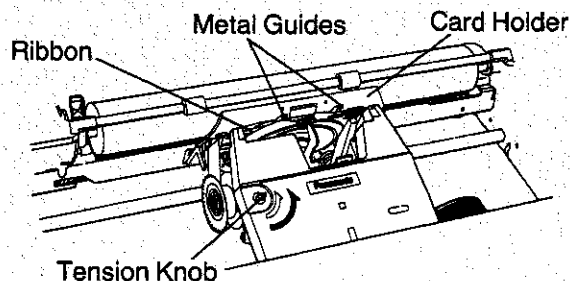
1-3 CHANGING THE RIBBON CASSETTE

1 After turning the **POWER** switch off, open the
paper support and remove the front plate. You will
see the carriage, ribbon cassette and daisywheel.

Daisywheel   Card Holder
                    Carriage
                    Ribbon
                    Cassette
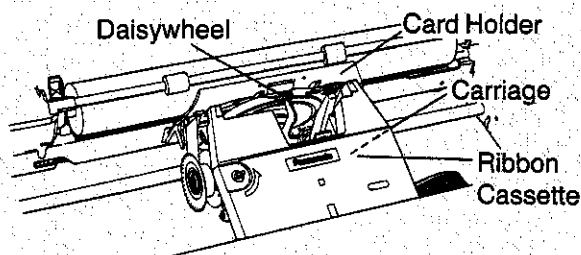
2 Hold the ribbon cassette on both sides and lift up
the front portion (where the ribbon is exposed) to
remove.
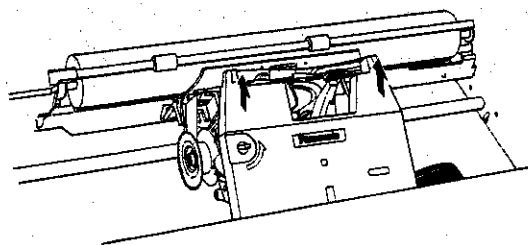
3 To insert a new cassette, place the back end of the
cassette, on the cassette holder on the carriage
and snap the front portion of the cassette onto the
carriage.

                    Metal Guides   Card Holder
Ribbon

Tension Knob

4 Advance the tension knob on the cassette counter-
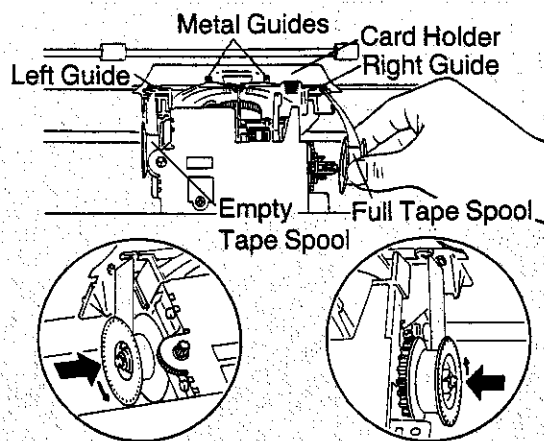clockwise until the ribbon slack is removed.

Press the **CODE+K** keys to initialize the carriage if you
change the ribbon cassette without turning off the
POWER switch.

1-4 CHANGING THE CORRECTION TAPE

1 After turning the **POWER** switch off, to replace the correction tape, lift out the typing ribbon cassette (see "1-3 CHANGING THE RIBBON CASSETTE") and remove the two spools of the lift-off tape by pulling them outward.

Tape Spool

Tape Spool
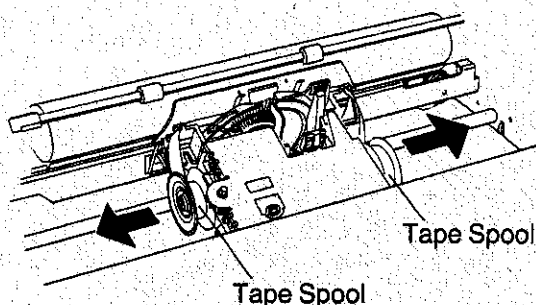
2 Place the empty spool of new tape on the left pin so that the tape winds counter-clockwise. Place the tape around the left guide and behind both metal guides. Pull the tape around the right guide and place the loaded spool on the right pin so that the tape unwinds counter-clockwise.

Metal Guides — Card Holder
Left Guide — Right Guide
Empty — Full Tape Spool
Tape Spool

3 Manually turn the left-hand spool in the counter-clockwise direction, tightening the tape until resistance is felt.

4 Replace the typing ribbon cassette.

Press the **CODE+K** keys to initialize the carriage, if you change the correction tape without turning off the **POWER** switch.

> * After changing the correction tape, confirm that the correctable (rough) side of the tape faces toward the platen.
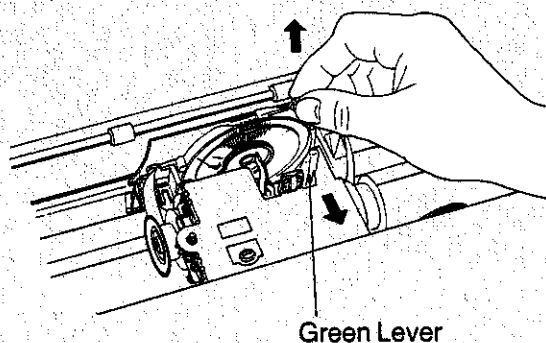
1-5 CHANGING THE DAISYWHEEL

You can remove the daisywheel without removing the ribbon cassette.
You will see a green lever on the right side of the carriage. Pull this lever toward you and lift out the plastic cartridge of the daisywheel.

After turning the **POWER** switch off, to insert the daisywheel, place the plastic cartridge in the carriage with the characters facing toward the platen. Push the green lever back into position.
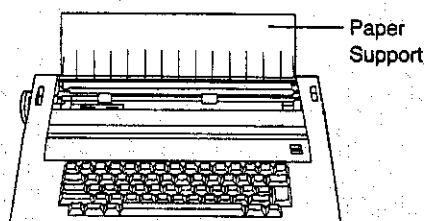
Press the **CODE+K** keys to initialize the carriage, if you change the daisywheel without turning off the **POWER** switch.

> If you experience trouble locking the daisywheel into place, make sure it is pressed down as far as possible. Then, push the locking lever forward again.

Green Lever

1-6 INSERTING THE PAPER

1 Open the paper support.

Paper Support

2 Insert the paper straight behind the platen.
Use the markings on the paper support as a guide.

3 Pull the paper bail lever towards you. While keeping the left edge of the paper in line with the scale, press the **CODE+RETURN** keys. Your paper is automatically positioned at line 7.
Should you wish to change the point of insertion. Use the **RETURN, INDEX, CODE+INDEX** keys or turn the platen knob move the carriage to the desired position.
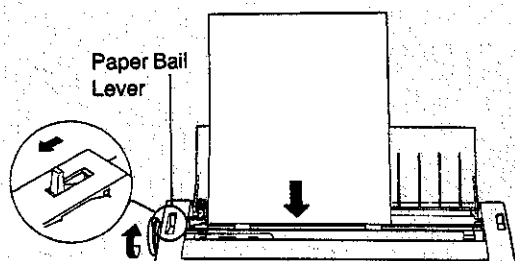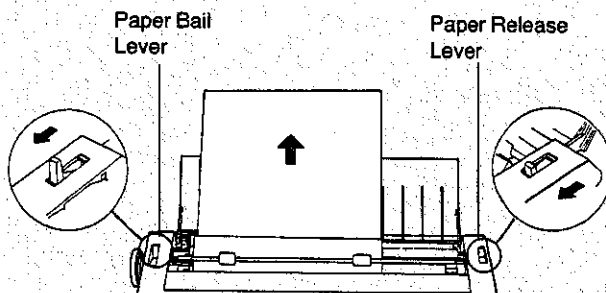

Paper Bail Lever

4 Return the paper bail levers to their original positions and then position the paper bail rollers to hold down the paper.

Paper Bail Rollers
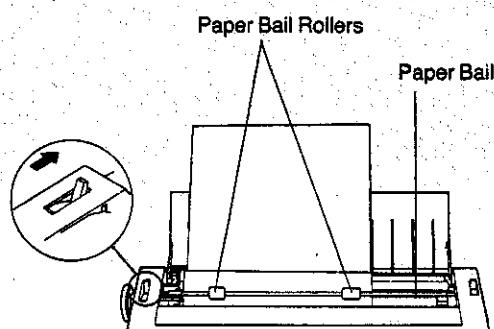
Paper Bail

NOTE: If there is any slack in the paper, proper printing and correction will not be possible. Hold the paper by the top edges and pull up to remove any slack.
Please do the following.

Pull the paper bail and paper release lever toward you and adjust the paper.
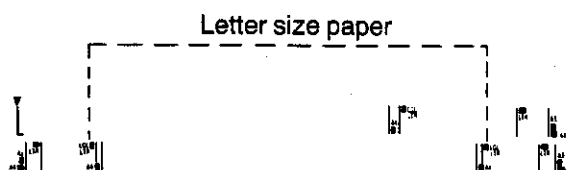

Paper Bail Lever

Paper Release Lever

Return the paper release and paper bail levers to their original position.

Paper Bail
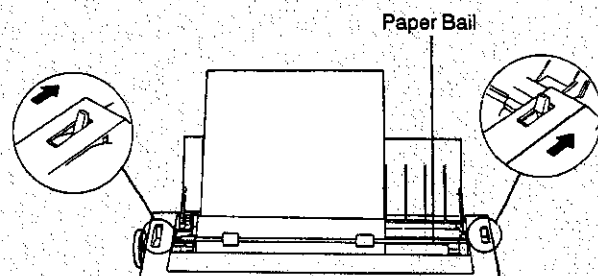
*Your typewriter has a 12″ paper width capacity.
For your convenience several scales have been marked on the paper support. Align the left edge of the paper with the appropriate marking.

Letter size paper

2-1 SETTINGS

The unit will automatically set typing mode, pitch, line spacing, and keyboard as set when the unit was last used.

If you want to change the setting, simply do the following.

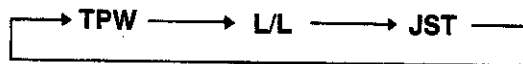First, press the **CODE+3, 4, 5,** or **6** keys.

For example, the display will show:

MODE	PITCH	LINE SP	KB
TPW	10	1	I

After the display shows the typing mode, pitch, line spacing, and keyboard settings, you can change each function as follows.

Selecting typing mode   (TPW • L/L • JST)

Every time you press the "**3**" key, the typing mode changes as shown.

TPW ⟶ L/L ⟶ JST

Typewriter (TPW) Mode
The characters entered will be printed immediately. You can set margins and tabs in this mode. You can select either NORM or AUTO carriage return in this mode by pressing **CODE+A**.

LINE by LINE (L/L) Typing Mode
When character keys are pressed, the respective characters appear on the display and can be edited (inserted, deleted, corrected) on display before they are printed. When typing a character after entering a "Hyphen" or "Space" within the "Hot Zone" or beyond the "Right Margin", Automatic Carriage Return will occur.

Justify (JST) Printing Mode
The typed characters will first appear on the display at which time the character can be edited before they are printed. When the characters exceed the right margin, the typewriter will start printing the line up to the last word within the right margin, aligning the last character of each line at the right margin and returning the carriage automatically.
To print a line which does not reach the right margin, press the **RETURN** key.

Selecting Pitch (10 • 12 • 15)

Every time you press the "**4**" key, the pitch changes as shown.
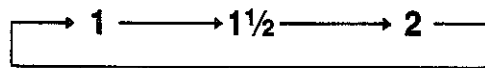
10 ⟶ 12 ⟶ 15
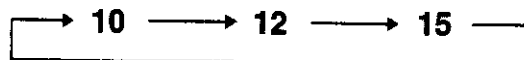
10 ...... 10 characters per inch (2.54 cm) or 100 characters per line can be printed.
12 ...... 12 characters per inch (2.54 cm) or 120 characters per line can be printed.
15 ...... 15 characters per inch (2.54 cm) or 150 characters per line can be printed.

Selecting Line Spacing (1 • 1½ • 2)

Every time you press the "5" key, the line spacing changes as shown.

```
 ┌─→ 1 ──────→1½──────→ 2 ─┐
 └──────────────────────────┘
```

1 . . . . Paper is fed one line.
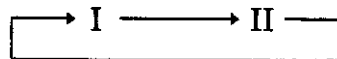1½ . . . . . . Paper is fed one and a half line.
2 . . . . Paper is fed two lines.
● When the platen knob is rotated manually, one click moves the platen one half line.

Selecting keyboard (KB I • KB II)

Every time you press the "6" key, the keyboard setting changes as shown.

```
 ┌─→ I ──────→ II ─┐
 └──────────────────┘
```

KB I . . . . The characters and symbols on the left side of the key can be typed.
KB II . . . . The characters and symbols on the right side of the key can be typed.

Shift, KBI	¼ | Ç	Shift, KBII
No shift, KBI	½ | ß	No shift, KBII
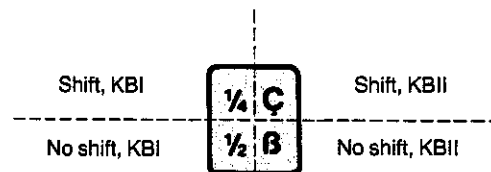
● "Dead" keys
These five accent symbols (" ´ ` ^ ˜) can only be used with the characters shown.
They will not be printed until the character, which is to fall below, is pressed.

äëïöü ÄËÏÖÜ
áéíóú ÁÉÍÓÚ
àèìòù ÀÈÌÒÙ
âêîôû ÂÊÎÔÛ
ãõñ ÃÕÑ

After you finish selecting the typing mode, pitch, line spacing, and keyboard setting, press the **RETURN** key.

2-2 USING THE TYPEWRITER

This section introduces you to the fundamental operations of the Panasonic KX-R530. Read through it and do the exercises to familiarize yourself with each operation.

A Procedure for Typing

1 Open the paper support and front plate and confirm that the ribbon cassette, correction tape and daisywheel are properly installed on the carriage.
Remove the ribbon cassette stopper and carriage stopper if you have not already done so.

2 Connect the AC power cord to a household AC outlet.

3 Turn ON the **POWER** switch. The display shows the indicator arrow (◀) and the number of characters available on the writing line.

```
                    ◀100
```

4 Insert the paper behind the platen and press the **CODE+RETURN** keys.

Now you can begin typing.

5 Type the following characters.

    Typewriter

●When the "TPW" mode is selected, the characters will be printed on the paper immediately.

●When the "L/L" or "JST" mode is selected, the characters will appear on the display. Press the **RETURN** key to print them.

You will now learn how to use the typewriter to perform simple operations.
Read the following descriptions thoroughly in order to make the most effective use of the functions of the KX-R530.

B Margin Formats

Left Margin   Right Margin
Tab Tab Tab
8 spaces
Hot Zone
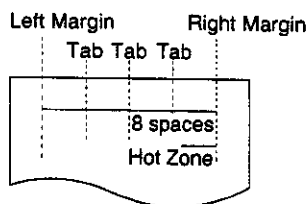
When you turn ON the **POWER** switch, the margin formats (margins and tabs) which were previously stored will automatically be set.

If you want to change this margin format, simply do the following:

To Clear All Tabs

1 CODE + MAR REL

```
ALL TABS CLEAR
```

```
TAB CLEAR
```

```
TAB SET
```

Press the **CODE+MAR REL** keys. The display will show "ALL TABS CLEAR" for one second.
The unit clears all tabs at once.
The carriage moves to the left margin and clears the entire line format (all tabs).

●Should you want to change a TAB stop, press the **TAB** key to move the carriage to the tab position to be cleared, and press the **CODE+TAB SET** keys. The display will show "TAB CLEAR" for one second.

To set a TAB, press the **TAB SET** key when the carriage is at the desired position. The display will show "TAB SET" for one second.

To Set Margins and Tabs

1 [CODE] + [MAR REL]

Press the **CODE+MAR REL** keys.
Clear the current tabs. Refer to "To Clear All Tabs".

2 [SPACE BAR] / [BACK SPACE TAB]

Press the **SPACE BAR** or **BACKSPACE** key to move the carriage to the desired left margin position.
If necessary, press the **MAR REL** key to by-pass a previously set margin.

3 [CODE] + [! 1]

Press the **CODE+1** keys to set the left margin.
The display will show "L.M. SET" for one second.

        L.M. SET

4 [SPACE BAR]

Press the **SPACE BAR** until you reach the first desired TAB stop.

5 [TAB SET]

Press the **TAB SET** key to set the first TAB stop.
The display will show "TAB SET" for one second.

        TAB SET

6 Repeat steps 4 and 5.

Repeat steps 4 and 5 for each desired TAB stop. Remember that the maximum number of TAB stops is 13.

7 [SPACE BAR] / [BACK SPACE TAB]

Press the **SPACE BAR** or **BACKSPACE** key to move the carriage to the desired right margin position.
If necessary, press the **MAR REL** key to by-pass a previously set margin.

8 [CODE] + [@ 2]

Press the **CODE+2** keys to set the right margin.
The display will show "R.M. SET" for one second.

        R.M. SET

9 [RETURN]

Press the **RETURN** key to move the carriage to the left margin on the next line.

Example: Set the margins and tabs as follows:
  ❶ Set the left margin at 15
  ❷ Set the first TAB at 30
  ❸ Set the second TAB at 45
  ❹ Set the third TAB at 60
  ❺ Set the right margin at 75

C Hot Zone

The "Hot Zone" is preprogrammed in the machine at 8 spaces from the right margin. When the carriage enters the "Hot Zone", you will hear the buzzer which indicates that the right margin is approaching.

This typewriter has a 15 character liquid crystal display (LCD), allowing you to correct, edit, move or delete information.

When typing, most errors are "felt" by the operator. Through the use of the display, you can check if there are errors and correct them before they are printed.

In order to activate the display, select the "L/L" or "JST" typing mode.

Display Messages

2 The display will give you certain messages to guide you through your projects. As you proceed through the exercises in this manual, these messages will become second nature to you.

(On p. 45 you will find a list of all the display prompts.)

Display Symbols

As you begin the exercises, you will see various symbols on the display. These symbols indicate certain functions and are listed below to help you understand what you are seeing.

You are not expected to memorize these symbols. As you proceed through this book, you will become familiar with them and understand how they relate to the various functions you are asking your typewriter to perform.

◄ Indicator Arrow

⏎ Manual Return

⊞ Beginning of Text

▶ Bold Mode Start

◀ { Bold Mode End
   { Bold Print is in operation

P No Print

C Centering

D Decimal Tabulation

S Stop Code

R Right Margin Flush

M Manual Correction

↓ Index Command

↑ Reverse Index Command

-- Half Space

--- Micro Spacing

▯ { Open/Close of Block Move, Copy or Delete
   { Separate Mark

⊫ Paragraph Indent

⁻ Temporary Hyphen

⁻ Permanent Space

⊣ Tab Command

⊫ Continuous Underline Mode Start

◀ { Continuous Underline Mode End
   { Continuous Underline is in operation

◀ { Bold Print and Continuous Underline
   { are in operation

▶ Word by Word Underline Mode Start

◀ { Word by Word Underline Mode End
   { Word by Word Underline is in operation

◀ { Bold Print and Word by Word
   { Underline are in operation

The **INDEX** key allows you to move the paper ½ line toward the bottom of the page. The **CODE+INDEX** keys allow you to move the paper ½ line toward the top of the page.

These keys are used for the typing of superscripts (e.g. 10^3) and subscripts (e.g. $\log_{10} 1000$). You will also use them during correction.

<p align="center">The 4th of July is Independence Day.</p>

1 Type "The 4".

To type this sentence, you would first enter "The 4" and then:

2 `CODE` + `INDEX REV INDEX`

Press the **CODE+INDEX** keys and type "th".

3 `INDEX REV INDEX`

Press the **INDEX** key to reposition the carriage on the actual typing line.

Continue typing. To type a subscript, reverse the keystroke order.

2

To Correct Errors on the Current Line

The unit has a one line correction memory so you can delete characters on the current line automatically with one simple operation.

1 `⊠`

To erase the last printed character on the current line:
Press the **CANCEL** (⊠) key to "lift" the incorrect character off the paper. If you press the **CANCEL** (⊠) key again, the next character will be erased.
•To erase characters towards the beginning of the line, press the **CODE+RELOC** keys, the **SPACE BAR** or the **BACKSPACE** key and position the carriage so that the character to be erased is aligned between the two vertical lines on the top of the Card (Plastic) Scale.
Press the **CANCEL** (⊠) key.

2 Type the correct character(s).

3 `RELOC`

Press the **RELOC** key after making the correction to move the carriage back to the end of the line.

To Make Manual Corrections on a Previous Line

To erase characters on previous lines.

1 `CODE` + `⊠`

Press the **CODE+CANCEL** (⊠) keys to enter the manual correction mode. The carriage will automatically move to the left margin to allow you to begin making corrections. The display will show the symbol "M".

| M | ◄60 |

2 `CODE` + `INDEX REV INDEX`

Press the **CODE+INDEX** keys to position the carriage on the line with the error.

3 Position the carriage over the error.

4 `CODE` + `⊠`   Press the **CODE+CANCEL** (⊠) keys.

5 Retype the incorrect character.   This will lift the character off the paper.

6 Type the correct character.
- ●Repeat steps 2-6 to correct errors on another line.
- ●Repeat steps 3-6 to correct another character on the same line.

7 `RELOC`   Press the **RELOC** key.
This will position the carriage to the end of the last line.
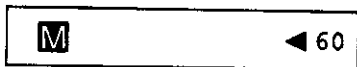The symbol "M" will disappear from the display.

2 Disabling Print When Making Manual Corrections

The **CODE+TEXT** keys may be used to make manual corrections.
This feature is especially helpful when making many corrections successively.

1 `CODE` + `⊠`

`| M          ◀60 |`

Press the **CODE+CANCEL** (⊠) keys.
The carriage will automatically return to the left margin.
The display will show the symbol "M".

2 `CODE` + `INDEX`

Press the **CODE+INDEX** keys to position the carriage at the beginning of the line on which the correction is to be made.

3 `CODE` + `TLXT`

`| M P        ◀60 |`

Press the **CODE+TEXT** keys.
The display will show the symbol "P".

4 Position the carriage over the error.

5 Retype the error.   This information has now been entered back into memory but has not reprinted on the paper.

6 `CODE` + `TLXT`   Press the **CODE+TEXT** keys.

7 `⊠` / `QUICK ERASE`   Press the **CANCEL** (⊠) or **QUICK ERASE** key to delete the entered characters.

8 Type the correct character.   ●Repeat steps 2-8 for each error to be corrected.

9 `RELOC`   Press the **RELOC** key.
This will position the carriage to the right of the character printed last before correction. The symbol "M" will disappear from the display.

In the Justify Printing Mode:
- ●Perform the steps 1~2.
- ●Press the **CODE+TEXT** keys.
- ●Retype the entire line with the error, and continue typing the line until the carriage reaches the right margin. It is necessary to type beyond the error line so that the typewriter can perform its justification.
- ●Press the **BACKSPACE** or **SPACE BAR** to position the carriage on the error.
- ●Press the **CANCEL** (⊠) key to delete the error.
- ●Type the correct characters.
- ●Press the **CODE+TEXT** keys or **RETURN** key.

To Make Corrections on the Display

Select the "L/L" or "JST" typing mode. This will activate the display. As you type, the descending line counter will count down for each character key depression, letting you know how many more characters may be entered on the current line.

Enter the following information including the errors. Do not press the RETURN key at the end of the line.

"Errors are corrected before tehy are printed on paper."

The display will show:

> d on paper.◄   6

1 [BACK SPACE]

Press the **BACKSPACE** key to position the error to the left of the indicator. (◄)

> before teh ◄   29

2 [⊗]

Press the **CANCEL** (⊠) key to delete the incorrect characters.

> ed before t◄   31

3 Enter the correct characters.

> before the ◄   29

4 [CODE] + [BACK SPACE]

Press **CODE+BACKSPACE** keys to move toward the next error or to the end of the line.

5 [RETURN]

Press the **RETURN** key to print the information you have typed.

- If the error is located toward the beginning of the line, you may use the **CODE+RELOC** keys instead of the **BACKSPACE** key. To reposition the carriage at the end of the line, use the **RELOC** key instead of the **CODE+BACKSPACE** keys.

To Erase One Word at a Time

The **QUICK ERASE** key may be used to speed up correction by deleting one word on the paper or the display at a time.

1 [BACK SPACE] / [CODE] + [BACK SPACE] / [SPACE BAR]

Press the **BACKSPACE** or **CODE+BACKSPACE** keys or the **SPACE BAR** to position the carriage one character to the right of the incorrect word.

- If you have pressed the **SPACE BAR** after typing an incorrect word, make sure to press the **BACKSPACE** key before pressing the **QUICK ERASE** key.

2 [QUICK ERASE]

Press the **QUICK ERASE** key.

3 Type the correct word.

To Erase One Line at a Time

This function may be used to speed up correction by deleting one entire line on the paper or the display at once.

1 `BACK SPACE` / `CODE` + `BACK SPACE` / `SPACE BAR`

Press the **BACKSPACE** or **CODE+BACKSPACE** keys or the **SPACE BAR** to locate the last character of the line to be deleted.

2 `CODE` + `QUICK ERASE`

Press the **CODE+QUICK ERASE** keys.
The typewriter will delete an entire line at a time.
●If you want to stop deleting information in the middle of the line, press the **CODE+TEXT** keys.
The display will show:

```
CONTINUE Y/N?
```

To continue deleting:
Press the "**Y**" key.

To exit the deleting command:
Press the "**N**" key.

3 Retype new information.

G Bold Print

1 `CODE` + `B`

```
                    ◀ 60
         xx
```

Press the **CODE+B** keys.
The display will show "◀".
●The mode status indicator for "Bold" is displayed.

2 Type your information.

As you type the characters, they will be printed in bold face.   **Panasonic**
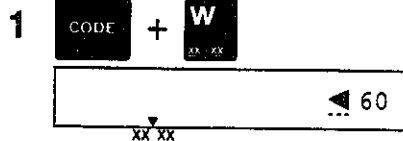
3 `CODE` + `B`

Press the **CODE+B** keys to cancel the command.
●When the "L/L" or "JST" typing mode is selected, the symbol "▶" is displayed in front of and the symbol "◀" is displayed behind the characters to be bold.

H Underlining

Continuous Underlining

1 `CODE` + `U`

```
                    ◀ 60
       xx xx
```

Press the **CODE+U** keys.
The display will show "◀".
●The mode status indicator for "Continuous Underlining" is displayed.

2 Type your information.

All characters and spaces will
be underlined.   <u>Electronic Typewriter</u>

3 `CODE` + `U`

Press the **CODE+U** keys to cancel the command.
●When the "L/L" or "JST" typing mode is selected, the symbol "▶" is displayed in front of and the symbol "◀" is displayed behind the information to be underlined.

```
        ▶abc def◀◀ 53
```

●When the bold print command is set together with continuous underlining, the symbol "◀" will be shown on the display.

Word by Word Underlining

1 CODE + W

◀ 60

xx xx

Press the **CODE+W** keys.
The display will show "◀".
●The mode status indicator for "word by word underlining" is displayed.

2 Type your information.
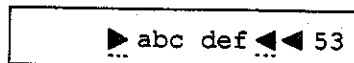
Only characters will be underlined.
●Spaces will not be underlined.

<u>Electronic Typewriter</u>

3 CODE + W

Press the **CODE+W** keys to cancel the command.

●When the "L/L" or "JST" typing mode is selected, the symbol "▶" is displayed in front of and the symbol "◀" is displayed behind the information to be underlined.

▶abc def ◀◀ 53

●When the bold print command is set together with word by word underlining, the symbol "▓" will be shown on the display.

Decimal Tabulation

The unit will automatically align decimal points at the preset tab stops and eliminates the need to space to the correct starting position in a column.
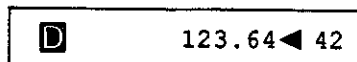This function also can be used when typing formats which include characters.

1 CODE + TAB

D   ◀ 45
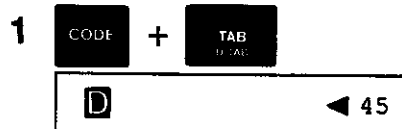
Press the **CODE+TAB** keys.
The carriage will move to the first tab position and the display will show "D".

2 Enter the numbers and decimal point.

D   123.64◀ 42

The entry can be seen on the display.

3 CODE + TAB

Press the **CODE+TAB** keys.
The first column will be printed so that the decimal point is positioned on the first tab stop and the carriage will move to the next tab position.
Repeat the above two steps until you have completed all of your column entries.
●After entering the last number, press the **RETURN**, **TAB**, or **CODE+TEXT** keys to execute printing.
●To terminate the Decimal Tabulation command, while "D" is on the display as shown in steps 1 and 2, press the **CANCEL** (⊠) key.
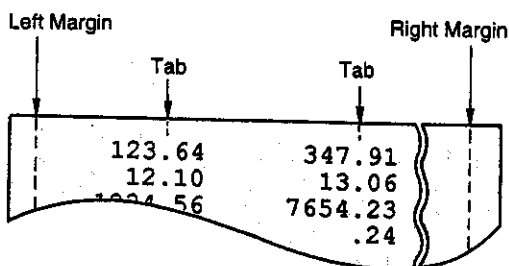
Left Margin   Right Margin

Tab   Tab

123.64   347.91
12.10   13.06
___.56   7654.23
            .24

The **CODE+A** keys select whether a carriage return is made automatically or normally in the "Hot Zone".

CODE + **A** AUTO

◄ 60
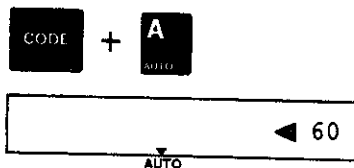
AUTO

NORM: Printing stops at the right margin.

AUTO: When a character after entering a "Hyphen" or "Space" is entered within the "Hot Zone", the carriage automatically returns to the left margin or the paragraph indent position of the next line.

● When the automatic carriage return mode is set, the mode status indicator is displayed.

● When the "L/L" typing mode is selected, the carriage always returns automatically whether you set the automatic carriage return or not.

2 K Centering

Between Margins

1 RETURN

Press the **RETURN** key to position the carriage at the left margin.
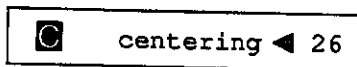
2 **CODE** + **C** CENTER

C ◄ 30

Press the **CODE+C** keys to move the carriage to the center of the margins. The display will show "C".

3 Enter the information to be centered.

C centering ◄ 26

The characters will appear on the display.

4 RETURN / TAB /

CODE + **TEXT**

Press the **RETURN, TAB,** or **CODE+TEXT** keys. The information entered will be printed between the margins* and the centering command will be canceled.

> *When the indent function is in operation, centering is performed between the indented position and the right margin.

Between Tab Stops

1 TAB

Press the **TAB** key to position the carriage at the left side tab position of the column you want to center in.
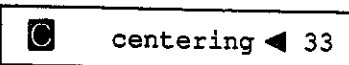
2 **CODE** + **C**

C ◄ 38

Press the **CODE+C** keys to move the carriage to the center of the tab stops. The display will show "C".
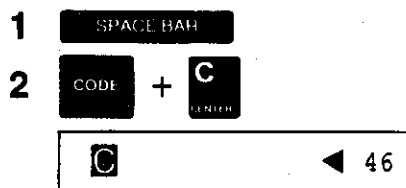
3 Enter the information to be centered.

C centering ◄ 33

The typed characters will appear on the display.

4 RETURN / TAB /

CODE + **TEXT**

Press the **RETURN, TAB,** or **CODE+TEXT** keys. The information entered will be printed between the tab stops and the centering command will be canceled.
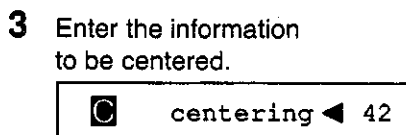
Over a Specified Point

1 [SPACE BAR] — Press the **SPACE BAR** to move the carriage to the desired position.

2 [CODE] + [C CENTER] — Press the **CODE+C** keys.
The display will show "**C**".

```
C                    ◄ 46
```

3 Enter the information to be centered. — The characters will appear on the display.

```
C    centering ◄ 42
```

4 [RETURN] / [TAB] /
[CODE] + [TEXT]

Press the **RETURN, TAB,** or **CODE+TEXT** keys.
The information entered will be printed and the centering command will be canceled.

Auto Half Space

You can automatically correct a word within memory with one that has one character more or any amount of characters less than the original word.

1 Locate the carriage on the error.

2 [⊗] / [QUICK ERASE] — Press the **CANCEL** ((⊗)) or **QUICK ERASE** key to delete the incorrect characters.

3 [CODE] + [C] — Press the **CODE+C** keys to activate the auto half space.
The display will show "**C**".

```
C
```
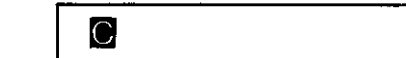
4 Type the correct characters.

5 [RETURN] / [TAB] /
[CODE] + [TEXT]

Press the **RETURN, TAB,** or **CODE+TEXT** keys.
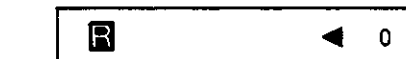The characters entered will be printed.

L Right Margin Flush

This command instructs the unit to print the information with the last character of each line aligned at the right margin.

1 [CODE] + [R] — Press the **CODE+R** keys to move the carriage to the right margin.
The display will show "**R**".

```
R                    ◄ 0
```
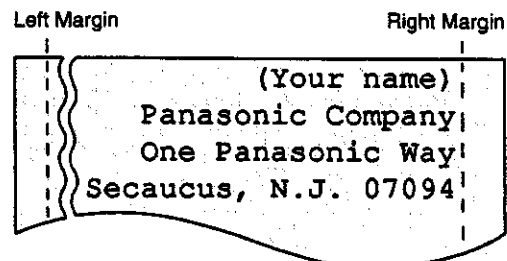
2 Enter the information.

3 [CODE] + [TEXT] / [RETURN]

Press the **CODE+TEXT** or **RETURN** key.
The characters will be printed with the last character right margin flush. The command will then be canceled.

Left Margin   Right Margin

```
              (Your name)
         Panasonic Company
          One Panasonic Way
      Secaucus, N.J. 07094
```

This command provides you with the ability to set a temporary left margin and eliminates the need to position the carriage to an indented location on every line.

1 **TAB** / **SPACE BAR**

Press the **TAB** key or the **SPACE BAR** to move the carriage to the desired indented position.
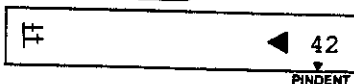
2 **CODE** + **I**

Press the **CODE+I** keys.
This sets the indented (temporary left margin) position.
The display will show "╠".
●The mode status indicator for "Paragraph Indent" is displayed.

| ╠ | ◄ 42 |

PINDENT

3 Type the characters.

Press the **RETURN** key.
The carriage moves to the indented position on the next line.

4 Continue typing

Left Margin   Right Margin

```
   ¡aaaaaaaaaa
   ¡aaaaaaaaaaa

              Indent
                 ¡
                ¡bbbbbbbbbb
                ¡bbbbbbb
                ¡bbbbbbbbbb
```

5 **CODE** + **I**

Press the **CODE+I** keys again to cancel the command.
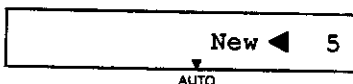The carriage will move to the original left margin when the **RETURN** key is pressed.
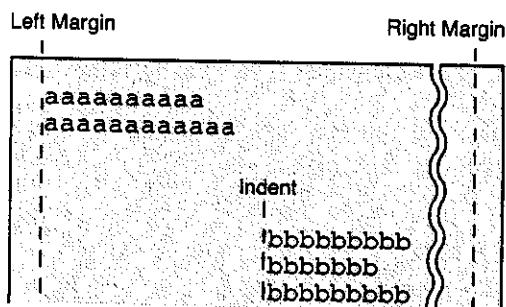
CODE + ▢

If you press the **CODE+HYPHEN** (-) keys within the "Hot Zone", when the automatic carriage return is activated, the unit will continue printing without generating an automatic return. This coded hyphen is called a "Permanent Hyphen". It is indicated by the symbol "−" on the display and will be printed at the same point every time you print this text.
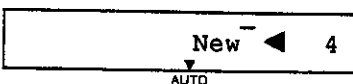
Since your unit allows you to print with automatic returns or with a justified margin, there may be times you do not want to separate characters or words. The unit allows you to set a "Permanent Space" between characters and will not separate them when printing with variable line lengths.

1 Type the first word.
(For example, New)

| New ◄ | 5 |

AUTO

2 **CODE** + **SPACE BAR**

Press the **CODE** key+**SPACE BAR**.
The display will show "−".

| New⁻ ◄ | 4 |

AUTO

3 Type the second word.
(For example, York)

When the characters are printed, the unit will recognize the two words as one and will not separate them.

| New⁻York ◄ | 0 |

AUTO

P Caps Lock

Use Caps Lock to set the unit for typing capital letters, lower case numbers, punctuation marks and symbols. In this mode, the **SHIFT** key will call for opposite characters to be entered.

1 CODE + LOCK
—comes on

Press the **CODE+LOCK** keys.
The shift indicator will come on and the caps lock mode is activated.

2 Type the text.

3 CODE + LOCK
—goes off

Press the **CODE+LOCK** keys again to cancel the command.
The shift indicator will go off and the caps lock mode will be canceled.

Q Micro Spacing

CODE + J

Press the **CODE+J** keys.
The carriage moves 1/60 inch.
You may use this function to "squeeze" characters together.
In the "L/L" and "JST" mode, the symbol "---" will appear on the display.

R Half Space

CODE + H

Pressing the **CODE+H** keys reduces the normal carriage spacing by one half.
In the "L/L" and "JST" mode, the symbol "--" will appear on the display.

S Typing Impression Control

This controls the impact of the printed characters. Select the impression level that is most suited for your needs. Each time the **CODE+L** keys are pressed, the typing impression level will change. A typing impression level of 1, 2 or 3 can be selected.

CODE + L

```
IMPRESSION: #
```
(#: desired number.)

Press the **CODE+L** keys.
The display will show "IMPRESSION: #".

* "IMPRESSION: 1" is softer than "IMPRESSION: 3".
* At first, try "IMPRESSION: 1" and if you feel the impression is too soft, try "IMPRESSION: 2" or "IMPRESSION: 3".

3-1 MEMORY

Your typewriter has an internal memory of 7,000 characters which you can use to store texts to be recalled as you wish.

The Text Memory is used for lengthy documents or projects requiring editing or repetitive printing.
When your typewriter has reached the maximum storage capacity of 7,000 characters, the buzzer will sound every time a key is pressed and the display will indicate the following:

```
MEMORY FULL!
            ▼
           TEXT
```

At this time, you will be required to delete portions of the memory, which are no longer needed to continue with your current project.
Deletion of memory contents will be discussed later in this manual.

3-2 TEXT MEMORY

The text memory allows you to enter documents which would require revisions, repetitive print-out, insertion of variable information or width changes. With this memory you may store documents that are either short or lengthy. You can also enter special functions such as tab, decimal tab, and indent commands as well as centering, bold print, and underlining.

1

```
IN/EDIT/LIST?
```

Press the **TEXT** key.
The display on your typewriter will ask "IN/EDIT/LIST?".
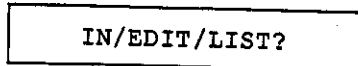
2

Press the "I" key when you are;
●creating the initial text
●continuing (adding) to the end of the text.

Press the "E" key when you are;
●recalling a text for modification
●recalling a text to print it
●listing the text names in memory on the display
●deleting a text from memory
●renaming a text

Press the "L" key when you are;
●requesting a printed list of text names in memory

1 [TEXT key]

Press the **TEXT** key.
The display will show "IN/EDIT/LIST?".

IN/EDIT/LIST?

2 [I key]

Since you are entering information into the text memory.
Press the "I" key. The display will show "TEXT=".

TEXT=

3 Enter the text name.
(maximum 10 characters)

Name the text as you wish (For example, "TEST 1"). The display will show:

TEXT=   TEST 1

4 [RETURN key]

Press the **RETURN** key.
The mode status indicator for "Text Memory" is displayed, and the number of characters you have available on the writing line.

◄ 60

AUTO   TEXT

5 Enter the information.

Example: "The quick yellow fox jumps over the lazy dog. It is true, but if"

●The way the text is printed depends on the typing mode:
In the "TPW" mode:
As you type, the characters are printed on the paper with an automatic return.
In the "L/L" or "JST" mode:
As you type, the characters are shown on the display and each line will be printed after the **RETURN**, **CODE+TEXT**, or **TAB** key is pressed or AUTOMATIC RETURN is performed.

6 [TEXT key]

When finished, press the **TEXT** key again to store the information and close the text .
●The carriage will move to the left margin when the text is closed.

> When entering the text names, all characters will appear in capital letters no matter how you type them.
>
> A minimum storage capacity of 47 bytes (characters) is necessary to store a text.
>
> Always press the **TEXT** key before leaving the text memory mode. Switching the power off will not automatically close a text, and loss of the contents of that text will occur.

3

1

IN/EDIT/LIST?

Press the **TEXT** key.
The display will show "IN/EDIT/LIST?".

2

TEXT=

Press the **"I"** key.
The display will show "TEXT=".

3 Enter the text name to be recalled.

4

CONT. TEXT Y/N?

Press the **RETURN** key.
The display will show "CONT. TEXT Y/N?".

5

Press the **"Y"** key.

Press the **"N"** key to go back to step 2.

6 Continue typing.

This positions you at the end of the text.
Continue typing as you did while storing.

> * You cannot scroll backwards through the text at this time, using the **BACK-SPACE** key, etc. You may only continue where you left off.

7

Press the **TEXT** key again to store the added information and close the text.

You have entered your document into memory and now want to print it.

1

IN/EDIT/LIST?

Press the **TEXT** key.
The display will show "IN/EDIT/LIST?".

2

TEXT=

Press the **"E"** key.
The display will show "TEXT=".

3 Enter the name of the text to be printed.
(maximum 10 characters)

●If you don't remember the text name, press the **CODE+BACKSPACE** keys, the first text stored in memory will be recalled and the display will show its name. Press the **CODE+BACKSPACE** keys to display the next text, or the **BACK-SPACE** key to display the previous one.

4

MAR CURR/STOR?

C / S
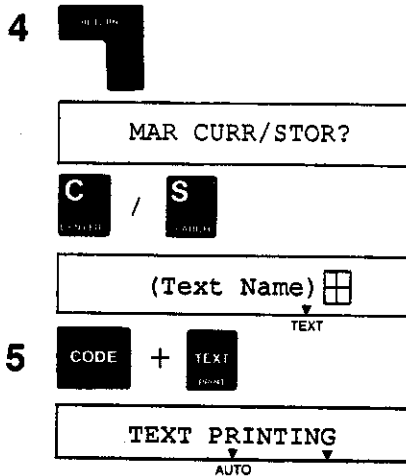
(Text Name) ⊞
TEXT

Press the **RETURN** key.
The display will show "MAR CURR/STOR?".
If the margin format you want to use is:
●The current format, press the **"C"** key.
●The format used when the text was stored last, press the **"S"** key.
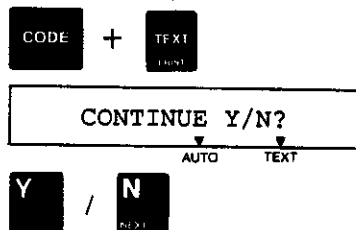The display will show "(Text Name) ⊞".

5

CODE + TEXT

TEXT PRINTING
AUTO

Press the **CODE+TEXT** keys.
The unit will start printing.
The display will show "TEXT PRINTING".

D **To Stop Printing in the Middle of a Text**

1 During printing

CODE + TEXT

CONTINUE Y/N?
AUTO   TEXT

Y / N

Press the **CODE+TEXT** keys during printing.
The display will show "CONTINUE Y/N?".

If you want to continue printing the text:
Press the **"Y"** key.
If you want to exit the printing mode:
Press the **"N"** key.
Your typewriter will resume printing from the point on the line where it stopped.
●If you want to reprint from the beginning of the text:
Press the **CODE+RELOC** keys to return to the beginning of the text.
Press the **CODE+TEXT** keys.
Your typewriter will start printing from the beginning of the text.

E **To Print from a Particular Point**

1 Recall the text.

Refer to "To Print a Text from Memory." on p.28.

2 CODE + BACK SPACE

Press the **CODE+BACKSPACE** keys to locate the desired starting point.

3 BACK SPACE

Press the **BACKSPACE** key until the first character to be printed disappears behind the right edge of the LCD.

4 CODE + TEXT

Press the **CODE+TEXT** keys to start printing.

*The Word Search function (see p.31) will help you to locate the desired word(s) easily.

3

1

IN/EDIT/LIST?

Press the **TEXT** key.
The display will show "IN/EDIT/LIST?".

2 E

TEXT=

Press the **"E"** key.
The display will show "TEXT=".

3 Enter the name of the
text to be modified.
(maximum 10 characters)

4 RETURN ➡ C / S

MAR CURR/STOR?

(Text Name) ⊞ ◄
TEXT

Press the **RETURN** key.
The display will show "MAR CURR/STOR?".

●If you wish to use the current margin setting (format), press the **"C"** key.
To use the same format as when the text was stored (if different from the current format), press the **"S"** key.
The mode status indicator for "Text Memory" is displayed, and the text name followed by the symbol "⊞" indicating you are at the beginning of the text.

5 CODE + BACK SPACE / BACK SPACE

Press the **CODE+BACKSPACE** or **BACKSPACE** key to position the last character of the word or phrase to be deleted to the left of the right edge of the LCD.

6 Type the new characters.

Press the **CANCEL** (⊠) key to delete the characters and type the new characters.

7 TEXT

Press the **TEXT** key again to store the modified information and close the text.

30

You can locate the word to be corrected directly within a text.

1 Recall the text.

Refer to "To Modify a Text" on p.30.

2 `CODE` + `S`

```
S-WD=
                ▼
              TEXT
```

Press the **CODE+S** keys.
The display will show "S−WD=".

3 Enter the word or
words you are
searching for.
(maximum 10 characters)

• Searching for particular characters. To search for a return mark, press the **CODE+RETURN** keys.
• To search for the start mark of the **BOLD** or **UNDERLINE** function, press the **CODE+B** keys for **BOLD** or **CODE+U** or **CODE+W** keys for **UNDERLINE**.
• To search for an end mark of the **BOLD** or **UNDERLINE** function, press the **CODE+B** keys twice for **BOLD** or **CODE+U** or **CODE+W** keys twice for **UN-DERLINE**.

4 `RETURN`

Press the **RETURN** key.
The display will show the word(s) you entered in the search command.
When the entered word is not included in the text, the display will show:

```
     NOT FOUND!!
                ▼
              TEXT
```

5 If necessary,
modify the word.

Press the **BACKSPACE** key or the **CODE+BACKSPACE** keys move to the desired position, and press the **CANCEL** (⊠) key to modify.

6 `CODE` + `N`

To locate the second occurrence of the entered word within the text, press the **CODE+N** keys.

3

There may be times when certain words (such as titles or names) appear very often in a document, and need to be changed.
The typewriter can replace words wherever they appear in the text.

1 Recall the text.

Refer to "To Modify a Text" on p.30.

2 **CODE** + **X**

C-WD=
▼ TEXT

Press the **CODE+X** keys.
The display will show "C−WD=".

3 Enter the word you want to replace.
(maximum 10 characters)

Press the **RETURN** key.
The display will show "R−WD=".

If the word entered is not in the text, the display will show "NOT FOUND!!" for one second and cancel the word replace command.

NOT FOUND!!
▼ TEXT

R-WD=
▼ TEXT

Only a word or words, with the following symbols in front of or behind, can be searched for.
- SPACE, CODE+H, CODE+SPACE, CODE+J
- UNDERLINE
- TAB
- DEC TAB
- BOLD, UNDERLINE MARK
- INDENT
- CENTERING
- RIGHT MARGIN FLUSH
- CODE+RETURN
- STOP CODE
- BLOCK MARK

4 Enter the word or words you want to insert.
(maximum 10 characters)

Press the **RETURN** key.
The display will show "CHANGING".

CHANGING
▼ TEXT

After the changes have been made throughout the text, the display will show the last position in the text where your change was made.
- To enter the start code for the **BOLD** or **UNDERLINE** function, press the **CODE+B**, **CODE+U**, or **CODE+W** keys respectively.
- To enter the end code for the **BOLD** or **UNDERLINE** function, press the **CODE+B**, **CODE+U**, or **CODE+W** keys twice respectively.

When the need to move, copy, or delete a sentence or a paragraph arises, the typewriter can do it simply and automatically.

Mark a Block

1 Recall your text.

Refer to "To Modify a Text" on p.30.
The display shows you are at the beginning of the text.

2 Search the beginning of the block.

Press the **CODE+BACKSPACE, CODE+S**, or **BACKSPACE** key to move the first character of the block to be moved, copied or deleted until it disappears behind the right edge of the LCD.

3 [CODE] + [Q]

```
fox jumps over[]
                TEXT
```

Press the **CODE+Q** keys.
The display will show a rectangular ([]) symbol just right edge of the LCD, which indicates the beginning of a move, copy, or delete command.

4 Search the end of the block.

Press the **CODE+BACKSPACE, CODE+S**, or **BACKSPACE** key to position the last character of the block to be moved, copied, or deleted to the left of the right edge of the LCD.

5 [CODE] + [Q]

```
[]   the lazy dog[]
                TEXT
```

Press the **CODE+Q** keys again.
A second rectangle will appear on the display indicating end of move, copy, or delete command ([]).

To Move the Information Block

1 Mark the block.

Refer to "Mark a Block" on this page.

2 Locate the new position.

Move to the position where you want to insert the information block which you have just marked, using the **CODE+BACKSPACE**, or **BACKSPACE** key.

```
is true, but if
                TEXT
```

3 [CODE] + [Q]

```
MOVE/COPY/DEL?
                TEXT
```

Press the **CODE+Q** keys.
The display will show "MOVE/COPY/DEL?".

4 [M]

```
if the lazy dog
                TEXT
```
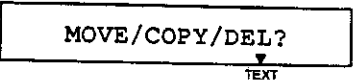
Press the **"M"** key to delete the words inside the marks and move them to the new position.
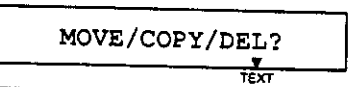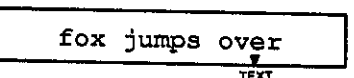
To Copy the Information Block

1 Mark the block.   Refer to "Mark a Block" on P.33.

2 Locate the position.   Move to the position where you want to copy the information block.
(Refer to "To Move the Information Block" on P.33.)

3 [CODE] + [Q]

```
MOVE/COPY/DEL?
            ▼
          TEXT
```

Press the **CODE+Q** keys.
The display will show "MOVE/COPY/DEL?".

4 [C]

Press the "**C**" key to copy the information block at the new position.

To Delete the Information Block

1 Mark the block.   Refer to "Mark a Block" on p.33.

2 [CODE] + [Q]

```
MOVE/COPY/DEL?
            ▼
          TEXT
```

Press the **CODE+Q** keys.
The display will show "MOVE/COPY/DEL?".

3 [D]

Press the "**D**" key to delete the information block.

```
fox jumps over
            ▼
          TEXT
```

J To Insert or Append a Text into Another Text

1 Recall the text you wish to insert/append into.

Refer to "To Modify a Text" on p.30.
The display will show you are at the beginning of the text.

2 [CODE] + [BACK SPACE] /

[CODE] + [S] / [BACK SPACE]

Press the **CODE+BACKSPACE, CODE+S**, or **BACKSPACE** keys to move to the position where you want to insert another text.

3 [CODE] + [T]

```
COPY=
         ▼
       TEXT
```

Press the **CODE+T** keys.
The display will show "COPY=".

4 Enter the text name you want inserted/appended into the current text.
(maximum 10 characters)

5 [RETURN]

Press the **RETURN** key.
The display will show the last position of the inserted/appended text.

1 Recall the text.

Refer to "To Modify a Text" on p.30.
The display will indicate the beginning of the text.

2 **CODE** + **O**

    ┌─────────────────────────┐
    │ NEW=   │
    └─────────────────────────┘
              ▼
             TEXT

Press the **"CODE+O"** keys.
The display will show "NEW=".

3 Enter the new name.
(maximum 10 characters)

4

Press the **RETURN** key.

    ┌─────────────────────────┐
    │   ALREADY EXISTS   │
    └─────────────────────────┘
              ▼
             TEXT

If the name you just entered is already being used, the display will show
"ALREADY EXISTS".

5

Press the **TEXT** key to close the text.

┌──┐
│ Your text is now renamed. In the future, the new text name should be used   │ **3**
│ because the original is no longer in memory.   │
└──┘

There may be times when you need to know the names of the texts which are stored in memory.

1 **TEXT**

    ┌─────────────────────────┐
    │   IN/EDIT/LIST?   │
    └─────────────────────────┘

Press the **TEXT** key.
The display will show "IN/EDIT/LIST?".

2 **E**

    ┌─────────────────────────┐
    │   TEXT=   │
    └─────────────────────────┘

Press the **"E"** key.
The display will show "TEXT=".

3 **BACK SPACE** / **CODE** + **BACK SPACE**

Press the **BACKSPACE** or **CODE+BACKSPACE** keys to begin listing the text
names on the display.
Your display will show the name of the first text which you have in memory.
● Continue pressing the **CODE+BACKSPACE** keys to scroll forward through the
   remaining text names.
● Press the **BACKSPACE** key to scroll backward through the text names.
● When you have reached the last text in memory, your typewriter will beep to in-
   dicate "End of Memory".
● To select a text to edit or print, press the **RETURN** key when the correct text
   name is displayed.

4 **TEXT**

Press the **TEXT** key to exit from the text listing mode.

1

IN/EDIT/LIST?

Press the **TEXT** key.
The display will show "IN/EDIT/LIST?".

2 **L**

PRINTING

Press the **"L"** key.
The display will show "PRINTING".
The names of the texts in memory will be printed on the paper.
●The amount of available memory will also be printed.

CODE + **M**

CHR. LEFT

(#: characters available)

Occasionally you will want to know how much memory is available before entering a new text.
Press the **CODE+M** keys. The display will show the number of characters available for one second.

When you no longer need a particular text, or need the space to enter a new text, you can delete an old text from memory.

1 Recall the text.

Refer to "To Modify a Text" on p.30.

2 **CODE** + **⊠**

CLEAR TEXT Y/N?

Press the **CODE+CANCEL** (⊠) keys.
The display will show "CLEAR TEXT Y/N?".

3 **Y** / **N**

Press the **"Y"** key to delete the text from memory.
●If you want to exit from this mode without deleting the text, press the **"N"** key.

This typewriter allows you to change the margin format in the text memory to the current margin format.

1 Recall the text.
C

Refer to "To Modify a text" on p.30.
Press the **"C"** key to choose the current margin format.

2 **CODE** + **V**

CHG FORM Y/N?

Press the **CODE+V** keys.
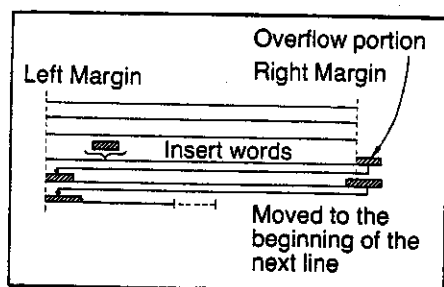The display will show "CHG FORM Y/N?".

3 **Y** / **N**

Press the **"Y"** key to store the current margin format in the text.
Press the **"N"** key, if you do not want to change the format.

4 **TEXT**

Press the **TEXT** key to store the text.

Word-Wrap means that a word exceeding the right margin will be shifted automatically to the beginning of the next line.

The function starts from the space before the last word which would overflow the right margin. After the insertion of a new word, the last word will be moved to the beginning of the next line.

Word-Wrap will occur within the sentences of each paragraph.
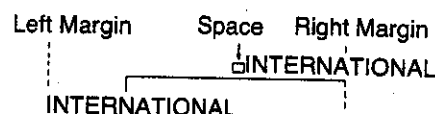
Spaces which fall at the left margin after carriage return with Word-Wrap will be eliminated and printing of the recorded characters will start at the left margin.

EXAMPLE

Left Margin   Space   Right Margin
                              ȯINTERNATIONAL

INTERNATIONAL

3-3 APPLICATION

3

A Stop Code

You may have to type a letter and send it to several different people. Each letter must be personalized and have specific but different information inserted into the body of the text. These different bits of information are referred to as "variables".

Your typewriter will allow you to enter a text and instruct it to stop printing at a particular point so that you may insert the variable within the body of the letter.

This code "to stop printing and insert variables" is called a Stop Code.

To Store a Text with Stop Codes

1 Create the new text.

Perform the 1~4 of "To Store Information in the Text Memory" on p.27.

2 Begin typing the document.

3 CODE + P

STOP CODE SET

When you are at the position within the text where you want to insert variable information:
Press the **CODE+P** keys.
The display will show "STOP CODE SET".

4 Continue typing.

When the "L/L" or "JST" typing mode is selected, the symbol "S" appears on the display at the position where the stop code will be inserted.
Continue entering the stop codes following the above procedure for all locations where the variables will be inserted.

5 TEXT

When you have completed entering the text, press the **TEXT** key again to store the stop codes and close your text.
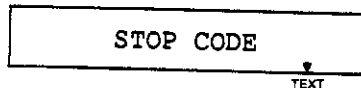
To Print a Text with Stop Codes

1 Recall the text.

Perform steps 1~4 of "To Print a Text from Memory" on pp.28~29 to recall the text.

2 CODE + TEXT/PRINT

```
┌─────────────────────────────┐
│                             │
│        STOP  CODE           │
│                             │
└─────────────────────────────┘
                        ▼
                       TEXT
```

Press the **CODE+TEXT** keys to print to the point where the first stop code was set. The display will show "STOP CODE".

In the "L/L" or "JST" mode, this message will be displayed for about one second, then the symbol "Ⓢ" appears on the display at the position where the stop code was set.

3 Enter variable.

Enter your variable which will be inserted in the first position by typing it.

4 CODE + TEXT/PRINT

Press the **CODE+TEXT** keys to resume printing.
•Continue inserting the variables until you have completed the text.

B To Store Information with No Print

This typewriter allows you to store texts with the NO PRINT feature. By using this feature you can store information without printing them on the paper.

When storing in the text memory:
•Perform steps 1~4 of "To Store Information in the Text Memory" on p.27.
•Press the **CODE+TEXT** keys. The display will show.

```
┌─────────────────────────────┐
│ Ⓟ                      60   │
│        ▼          ▼         │
│       AUTO       TEXT        │
└─────────────────────────────┘
```

•Perform steps 5~6 of "To Store Information in the Text Memory" on p.27.
When you use the **CODE+TEXT** keys, the carriage will move corresponding to the typing mode setting.

4-1 ACCU-SPELL™ (Spell Verifying Feature)

When you misspell a word, Accu-Spell informs you by means of an indication on the display and a buzzer. The typed words are checked by the dictionary, which contains about 86,000 words. Accu-Spell is a trademark of the Spell Verify Function in the U.S.A.

> Accu-Spell operates when you make an input from your keyboard.
> It does not work when a text is printing.

A Turning Accu-Spell ON/OFF

CODE +) 0

When you press the **CODE+0** keys the mode status indicator for "Accu-Spell" will be displayed and Accu-Spell will be activated.
Press the **CODE+0** keys again to deactivate Accu-Spell.

B Accu-Spell Operation

1 **CODE +) 0**

Press the **CODE+0** keys.
The mode status indicater for "Accu-Spell" will be displayed.

2 Type as usual.

While Accu-Spell is activated, type as usual.

3 **SPACE BAR**

RETURN

When you end a word (by pressing the **SPACE BAR** or **RETURN** key, etc.), it will be checked.
● If the word is not contained in the dictionary, the typewriter will judge it to be a misspelled word, the buzzer will sound, and the word will flash on the display.
● If the word is found in the dictionary, the buzzer will not sound and display will remain unchanged.
● If the **RETURN** key is pressed immediately after typing a misspelled word, the buzzer will sound but the word will not flash on the display. (Except in text edit mode.)

4 Correct the misspelled word.
The correct word will be checked again.

Word Endings

Accu-Spell checks a word only when it has been completed.
The unit judges that a word has been completed when you perform one of the following operations:
● when you press the **SPACE BAR** after a word
● when you press the **RETURN** key
● when you press a function key to move the carriage (**TAB, SPACE BAR**, etc.)
● when you perform Right Margin Flush or Centering

When you enter a character after entering a hyphen at the end of a line, the automatic return is performed and the word will be connected to the beginning of the next line, and will be spell verified as a single word.

4

Accu-Spell checks spelling according to the following rules.

- Numbers and symbols are also treated as a word. For example, "etc" is treated as a mistake while "etc." is judged correct.
- Symbols before and after a word such as "," (quotation mark) and ? (question mark) are first removed from the word before it is spell verified. For example, "Great!!" is judged correct, but "Gleat!!" is judged incorrect.
- Some punctuation errors are detected. For example, "word:)" is judged as an error and the buzzer will sound three times.
- Some errors of apostrophe are detected. For example, "now's" and "at's" will be judged incorrect.
- A word consisting of several words joined by hyphen, such as "mother-in-law", is spell verified as a single compound word.
- Accu-Spell takes into account the difference between capital letters and small letters.
  If you type "check, Check, CHECK", all of these words will be judged correct. This is because when a word is at the beginning of a sentence, it starts with a capital letter, while if it is part of a title it consists entirely of capital letters. If, however, you type "CHeck", it will be judged incorrect.
- In the case of words which always begin with a capital letter, such as America, both "America" and "AMERICA" will be judged correct, however "america" will be judged incorrect.
  Sometimes the buzzer will sound even if you type a correct word, because the word is not in the dictionary.

C How to Verify the Spelling of an Entire Text

1 Recall the text to be verified.

While Accu-Spell is activated, press the **TEXT** key, enter the text name and press the **RETURN** key.

2 Move the beginning of the text.

3 CODE + F

Press the **CODE+F** keys.

4 Each word in the text will be verified.

```
┌─────────────────────────┐
│      VERIFYING          │
│              ▼    ▼      │
└─────────────────────────┘
          SPELL  TEXT
```

Each word in the text will be verified from current position sequentially to the end of text.
The display will show "VERIFYING".

If a word that is not in the dictionary is found, spell verification will be interrupted, the buzzer will sound, and the word will appear as a flashing indication on the display.

5 CODE + F

To continue spell verification press the **CODE+F** keys.

If no misspelled words are found in any part of the text, the message "VERIFIED" will appear on the display.

```
┌─────────────────────────┐
│      VERIFIED           │
│              ▼    ▼      │
└─────────────────────────┘
          SPELL  TEXT
```

5-1 USE AS A PRINTER (with KX-R60)

To use this unit as a printer, the following must be purchased separately.
- KX-R60 (Interface Adaptor), optional
- Interface cable
- Interface card (if necessary for your computer)

A Connection to a Computer

This unit has a connector that is designed to receive data from the Panasonic KX-R60 Interface Adaptor.
In turn, the KX-R60 connects to the computer (or to its external interface adaptor).
This typewriter can be used as a printer to print data from a computer that is equipped with a parallel (Centronics) interface.
The KX-R530 emulates the boldface and underline commands used for EPSON printers.

Parallel ——— Centronics ——— Parallel ——————— Typewriter

| Computer | Interface card/adaptor | Interface cable | KX-R60 | Typewriter |
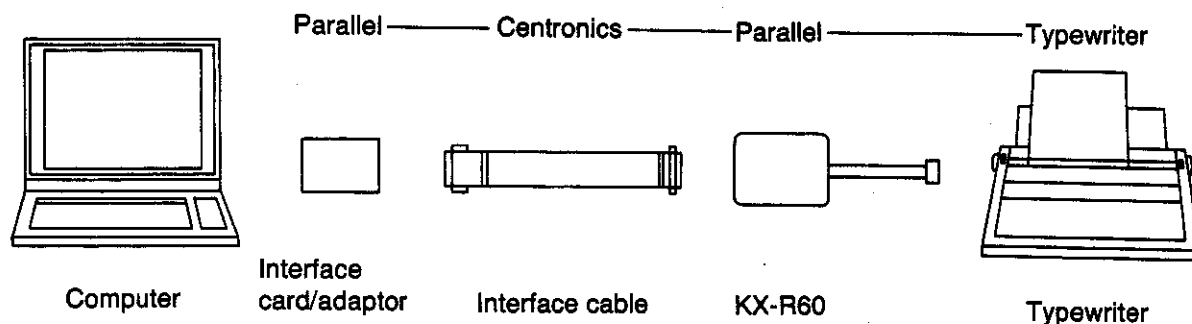
- If your computer is not equipped with a Centronics parallel interface, then you will need to purchase one for your computer.
- Proceed with the connections before pressing the CODE+E keys.

Before connecting the computer, refer to the operating instructions for the KX-R60 and your computer.

B Operation

1 CODE + E

ON LINE

Press the CODE+E keys.
The display will show "ON LINE".

2 CODE + TEXT

OFF LINE

To stop printing temporarily, press the CODE+TEXT keys of the typewriter.
- Press the CODE+TEXT keys again to resume printing.
- While data is being received by the interface adaptor, the carriage automatically returns when it reaches the right margin. The paper advances one line and printing continues.
- When the CODE+TEXT keys is pressed, printing will stop after the current line has been printed.

5

Character Set

Every computer has a set of letters, numbers, and symbols that it can display. This is called its "character set". Every printer also has a character set, that is, the numbers, letters, and symbols that it can print.

Unfortunately, these character sets do not match perfectly from computer to computer or printer to printer. Fortunately, enough of the characters do match so that you can print English sentences and, of course, numerals. The characters that don't match are usually the foreign character accents and other special symbols.

Lower \ Upper	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0			SP	0	@	P	`	p			ß	¨	Ú	ù		
1			!	1	A	Q	a	q			½	Ä	á	^		
2			"	2	B	R	b	r			¼	Ë	é	Â		
3			#	3	C	S	c	s				Ï	í	Ê		
4			$	4	D	T	d	t				Ö	ó	Î		
5			%	5	E	U	e	u				Ü	ú	Ô		ñ
6			&	6	F	V	f	v				ä	`	Û		
7			'	7	G	W	g	w				ë	À	â		
8		BS	(	8	H	X	h	x			ç	ï	È	ê		
9		HT	)	9	I	Y	i	y				ö	Ì	î		~
A		LF	*	:	J	Z	j	z			¡	ü	Ò	ô		Ã
B		ESC	+	;	K	SP	k	SP			¿	´	Ù	û		Õ
C			,	SP	L	SP	l	SP			¢	Á	à			Ñ
D		CR	−	=	M	SP	m	SP			£	É	è			ã
E			.	SP	N	^	n	~				Í	ì			õ
F			/	?	O	_	o					Ó	ò			

(SP=Space)

5

●For the five types of accent symbols (Codes, B0H, BBH, C6H, D1H, F9H) the carriage stops at the printing position and moves after printing the next character.

Control Codes

Symbol	Code	Operation
BS	08H	Back Space
HT	09H	Tabulation
LF	0AH	Line Feed
CR	0DH	Carriage Return
ESC	1BH	Special functions in combination with the following code

•Expansion Function

```
ESC+"E" ......... (1BH+45H) ...... Bold ON
ESC+"F" ......... (1BH+46H) ...... Bold OFF
ESC+"G" ......... (1BH+47H) ...... Bold ON
ESC+"H" ......... (1BH+48H) ...... Bold OFF
ESC+"-"+00H ..... (1BH+2DH+00H) .. Underline
                                   OFF
ESC+"-"+01H ..... (1BH+2DH+01H) .. Underline
                                   ON
ESC+"-"+"0" ..... (1BH+2DH+30H) .. Underline
                                   OFF
ESC+"-"+"1" ..... (1BH+2DH+31H) .. Underline
                                   ON
```

Auto Line Feed Operation

Automatic Line Feed can be selected by setting the Carriage Return Mode as shown below.
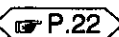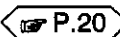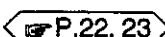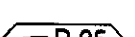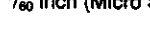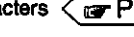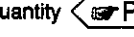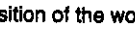
•Automatic Carriage Return Mode
Auto Line Feed ON
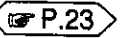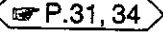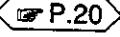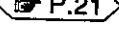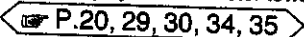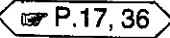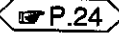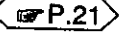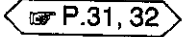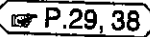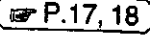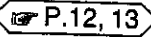
•Manual Carriage Return Mode
Auto Line Feed OFF

Code	Auto Line Feed ON	Auto Line Feed OFF
CR	Carriage Return, Line Feed	Carriage Return
LF	Carriage Return, Line Feed	Line Feed
CR+LF	Carriage Return, Line Feed	Carriage Return, Line Feed
LF+CR	Carriage Return, Line Feed	Carriage Return, Line Feed

6-1 LIST OF CODE KEY FUNCTIONS

- + A .... sets/releases auto carrier return mode ⟨☞ P.22⟩
- + B .... sets/releases BOLD print ⟨☞ P.20⟩
- + C .... centers information ⟨☞ P.22, 23⟩
- + E .... sets the machine to be used as a printer to print data from a computer ⟨☞ P.41⟩
- + F .... finds misspellings (in edit mode) ⟨☞ P.40⟩
- + H .... half spacing ⟨☞ P.25⟩
- + I .... sets/releases paragraph indent ⟨☞ P.24⟩
- + J .... moves the carriage by ¹/₆₀ inch (Micro Spacing) ⟨☞ P.25⟩
- + K .... initialize the carriage ⟨☞ P.9, 10⟩
- + L .... controls the impact of the printed characters ⟨☞ P.25⟩
- + M .... checks the remaining memory quantity ⟨☞ P.36⟩
- + N .... locates next position of the word ⟨☞ P.31⟩
- + O .... renames texts ⟨☞ P.35⟩
- + P .... sets a stop code in a text ⟨☞ P.37⟩
- + Q .... moves, copies, or deletes an information block in a text ⟨☞ P.33, 34⟩

CODE + **R** .... prints information with the last character on each line aligned at the right margin ☞ P.23

CODE + **S** .... searches words in a text ☞ P.31, 34

CODE + **T** .... inserts or appends a text into another text ☞ P.34

CODE + **U** .... sets/releases continuous underlining ☞ P.20

CODE + **V** .... stores margin format and changes margin format in a text ☞ P.36

CODE + **W** .... sets/releases word by word underlining ☞ P.21

CODE + **X** .... replaces words in a text ☞ P.32

CODE + **BACK SPACE** .... moves the information on the display by one character toward the left. moves to next text name. ☞ P.20, 29, 30, 34, 35

CODE + **⊠** .... makes correction manually in normal mode/clears texts ☞ P.17, 36

CODE + **QUICK ERASE** .... erases one line at a time ☞ P.20

CODE + **—** .... permanent hyphen ☞ P.24

CODE + **SPACE BAR** .... permanent space ☞ P.24

CODE + **TAB** .... aligns decimal points at preset tab stops ☞ P.21

CODE + **MAR REL** .... clears all tabs ☞ P.14

CODE + **RETURN** .... searches for the return mark while executing the word search command or the word replace command ☞ P.31, 32
inserts the paper automatically ☞ P.11

CODE + **LOCK** .... presets the unit for typing capital letters, lower case numbers, punctuation marks and symbols ☞ P.25

CODE + **RETURN** .... moves the carriage to the beginning of the line without line spacing ☞ P.17

CODE + **PRINT** .... starts/ stops printing documents stored in memory. ☞ P.29, 38

CODE + **CLEAR** .... clears tab stops ☞ P.14

CODE + **INDEX** .... moves the paper down ½ line ☞ P.17, 18

CODE + **1** .... sets the left margin ☞ P.15

CODE + **2** .... sets the right margin ☞ P.15

CODE + **3** ~ **6** .... recalls the setting mode ☞ P.12, 13

CODE + **0** .... turns ON/OFF the Accu-Spell ☞ P.39

6-2 LIST OF DISPLAY MESSAGES

Message   **Description**

ALL TABS CLEAR...........All tabs are cleared.
ALREADY EXISTS...........The name you just entered is already being used.
CHANGING ....The machine is changing words.
CHECK PRINTER! ....Something is wrong with the printer. Check the typewriter.
CHG FORM Y/N? ....Do you want to change the margin format stored in the text?
CHR. LEFT ....The numeric value represents the number of characters left in memory.
CLEAR TEXT Y/N? ....Do you want to clear this text from memory?
CODE ....**CODE** key has been pressed.
CONT. TEXT Y/N? ....Do you want to continue typing the text?
CONTINUE Y/N? ....Do you want to continue printing?
COPY= ....Enter the text name you want to insert/append.
C-WD= ....Enter the word or words you want to replace.
IMPRESSION: # ....Typing impression is changed.
IN/EDIT/LIST? ....Do you want to enter a information; edit information; or print a list?
L.M. SET................The left margin has been set.
MAR CURR/STOR? ....Which margin format do you want to use, the current one or the one you used when storing?
MEMORY FULL! ....Entire memory capacity has been used.
MOVE/COPY/DEL? ....Do you want to move the block?; copy the block?; delete the block?
NEW=....................Enter the new name for a stored text.
NOT FOUND!!.............The required word is not within this text or the text is not in memory.
OFF LINE................The machine is not ready to receive data from a computer and stops printing.
ON LINE ....The machine can receive the data from a computer and you can use it as a printer.
PRINTING................The machine is printing.
R.M. SET................The right margin has been set.
R-WD= ....Enter the word or words you want to insert.
STOP CODE ....Insert variable information here and press the **PRINT** key to continue text.
STOP CODE SET ....A stop code has been set.
S-WD=...................Enter the information you want to search for.
TAB SET ....A tab stop has been set.
TAB CLEAR ....The unit clears a tab stop.
TEXT=...................Enter the name of text.
TEXT PRINTING ....The machine is printing from text memory.
TOO MANY TABS! ....You have tried to enter more than the maximum number of tab stops.
VERIFIED................Verifying is complete.
VERIFYING ....The machine is verifying.

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6-3 OTHERS

A Troubleshooting

●Check the points below before returning your typewriter for service.

Symptom	Cause	Remedy/check
No operation; even when keys are pressed, nothing appears on the display.	The **POWER** switch is turned "OFF" or power cord is unplugged.	Turn the **POWER** switch "ON". Plug in the power cord.
	The LCD contrast control is set to low contrast.	Adjust the setting of the LCD contrast control.
Unit does not print correctly, or printing is blurred.	Paper release lever is in the release position.	Push lever to the lock position.
	End of ribbon cassette or correction tape.	Replace with new ribbon cassette or correction tape.
No deletion even with the **CANCEL** (⊠) key; blurred characters.	Correction tape is not installed, or installed incorrectly.	Install correction tape.
Buzzer sounds during typing and typing is disabled (keys do not function).	Carriage at right margin.	Press the **RETURN** key and move carriage to next line.
		Press the **MAR REL** key and continue printing on same line.
	Text memory is full.	Re-edit the data or cancel the text memory mode.
The unit does not operate properly. The error buzzer sounds when typing and/or keys do not function. Text Memory may contain garbled characters.	Noise on the AC line or static electricity may prevent the unit from operating properly.	Turn the **POWER** "OFF" for a few seconds then "ON" again. If the unit still does not function properly turn the **POWER** "OFF", press and hold the **CODE+SHIFT** keys and turn the **POWER** "ON". This performs a total reset which clears all memory and margin formats.

B Product Service

Should your Panasonic product ever require service, consult your authorized Panasonic dealer for detailed instructions.

6-4 OPTIONAL ACCESSORIES

• Replacement parts and accessories are available through your local authorized parts distributor.

Part No.	Description	Comment

KX-R10
KX-R11
KX-R12
KX-R13
KX-R14
	Daisywheel Printing Element
	  COURIER 10
	  PRESTIGE PICA 10
	  PRESTIGE ELITE 12
	  SCRIPT 10/12
	  GOTHIC 15
		1 unit
		1 unit
		1 unit
		1 unit
		1 unit

KX-R20 KX-R21	Correctable Film-Ribbon Cassette Fabric Ribbon Cassette	1 unit 1 unit
KX-R30 KX-R31	Lift-off Correction Tape Cover-up Correction Tape	2 units 2 units
KX-R60	Interface Adaptor	1 unit

6-5 SPECIFICATIONS

Print Element:	Daisywheel; 96 characters
Print Speed:	15 cps
Print Pitch:	10, 12, 15
Line Spacing:	1, 1 1/2, 2
Paper Width:	12"
Writing Line:	10"
Ribbon:	Correctable Film-Ribbon, Fabric Ribbon (Optional)
Correction Tape:	Lift-off Tape, Cover-up Tape (Optional)
Operating Modes:	TPW, L/L, JST
Memory Life:	Min. 5 years (Lithium Battery)
Correction Memory:	1 line
Text Memory:	7,000 Characters
Dictionary:	86,000 words
Display Type:	Liquid Crystal Display with contrast control
Display Size:	15 characters
Interface:	Parallel (Centronics) with optional Interface Adaptor KX-R60 (receive only)
Power Requirements:	Refer to the nameplate on the bottom of the unit.
Power Consumption:	35 W (Approx. 3W: When the power switch is turned off)
Operating Temperature:	41°F (5°C) to 95°F (35°C)
Operating Humidity:	20 to 80% RH
Storage Temperature:	−4°F (−20°C) to 140°F (60°C)
Dimensions:	16 13/16" (W)×14 3/8" (D)×4 3/8" (H) (427×365×112 mm)
Weight:	11 lbs. (5 kg)

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